



Brno

Vyškov

Hradčovice

Nové Město nad Váhom

Piešťany

Modřice

Hodonín

Senica

E65

Lednice

Břeclav

Kúty

Chránená krajinná oblasť Záhorie

Smolenice

Mikulov

Trnava

A5

Zistersdorf

Maláky

Mistelbach an der Zaya

Pezinok

Ernstbrunn

A5

Lozorno

Stupava

Bratislava

Hainburg an der Donau

5G Brno-Bratislava

Wölkersdorf im Weinviertel

Gänserndorf

Leopoldsdorf im Marchfelde

Kitsee

Klosterneuburg

FLORIDSDORF

Groß-Enzersdorf

A6

Key achievements

1. Coordination of ŽSR (Slovak republic) a Správa železnic (Czech republic) with different legislation and internal procedures
2. Coordination of 5G with mobile operators – contract between operators and Správa železnic
3. Coordination with project 5G Prague – Brno /Ostrava – will be co-financed from RRF (contract for the study was signed)



Funded by the European Union



Challenges and recommendations

1. Coordination of the infrastructure mobile operators and railway operators (installation of the repeaters in carriages)
 2. Coordination with operators for sites location (division of the sites between railway infrastructure managers and mobile operators): *Contract with operators with division of the sites*
 - Sites in the railway protection zone have to be built by the railway infrastructure manager
 - Sites outside of the railway protection zone = mobile operators
 3. Are the localities of these sites useful for implementation FRMCS or GSM – R double-coverage?
 - Current knowledge of FRMCS requirements indicates that some additional sites will be needed in the future and not all built sites for 5G will be usable for FRMCS.
 - GSM – R double-coverage is not fully feasible from 5G sites.
1. Pre-tender negotiations before a tender: number of 5G experts is limited in our countries
 2. Different environment and targets of the mobile operators and public sector
 3. Construction of the sites from the mobile operators outside of the railway protection zone is significantly cheaper (very strict standards for infrastructure along the railway line, longer infrastructure lifetime) – it is not easy to explain in grant process

